

FIG. 1

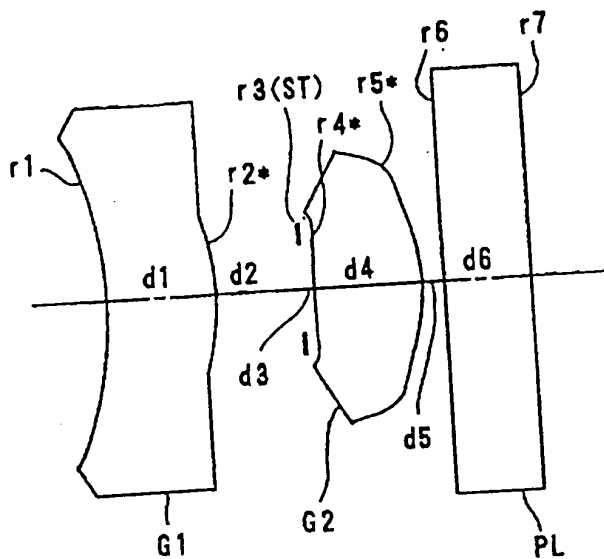
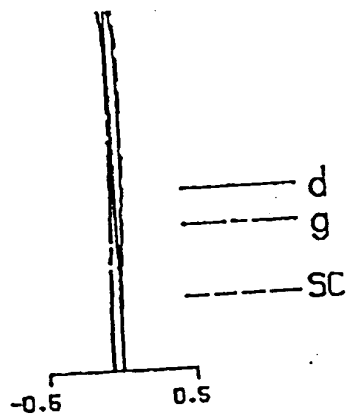


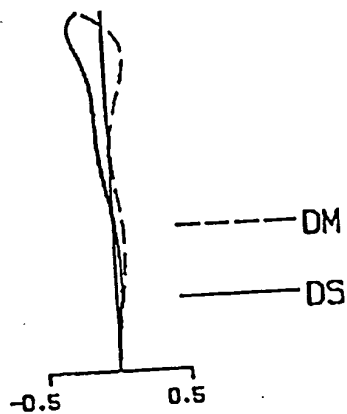
FIG. 2A
FNO=2.88



SPHERICAL
ABERRATION

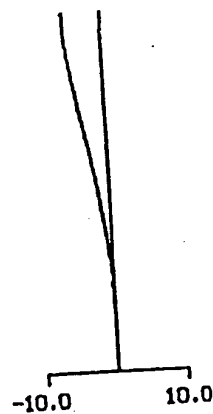
SINE
CONDITION

FIG. 2B
 $Y^*=1.3$



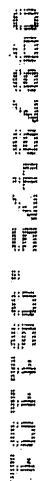
ASTIGMATISM

FIG. 2C
 $Y^*=1.3$

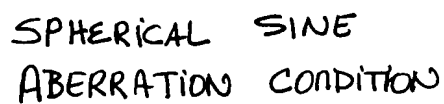


DISTORTION %

0000000000000000000000000000000000



FND-2.68


$$Y' = 1.3$$


Y'-1.3



FIG. 5

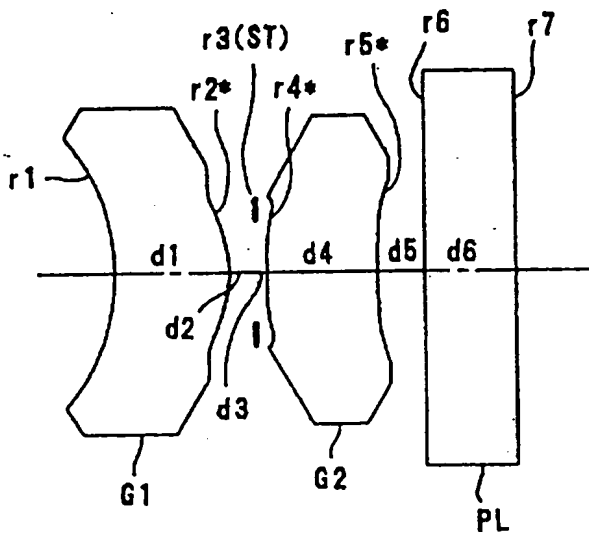


FIG. 6A

FNO-2.88

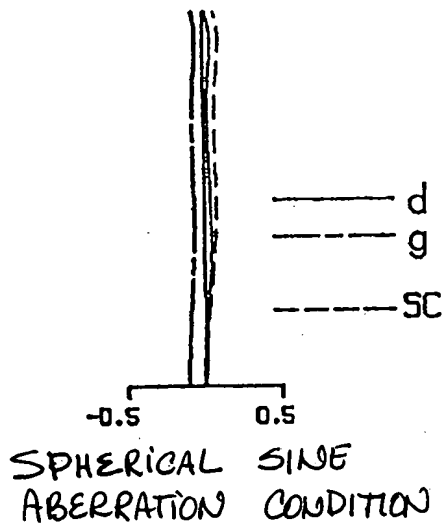


FIG. 6B

Y'-1.3

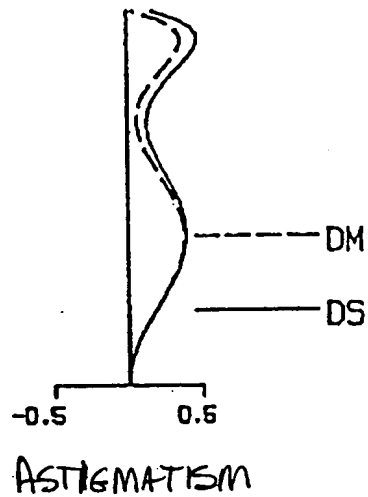


FIG. 6C

Y'-1.3

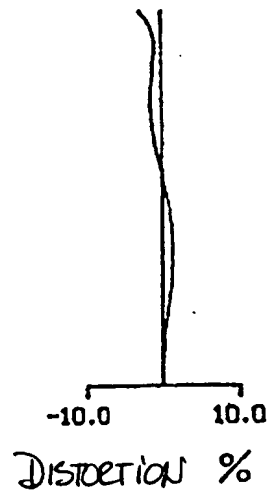


FIG. 7

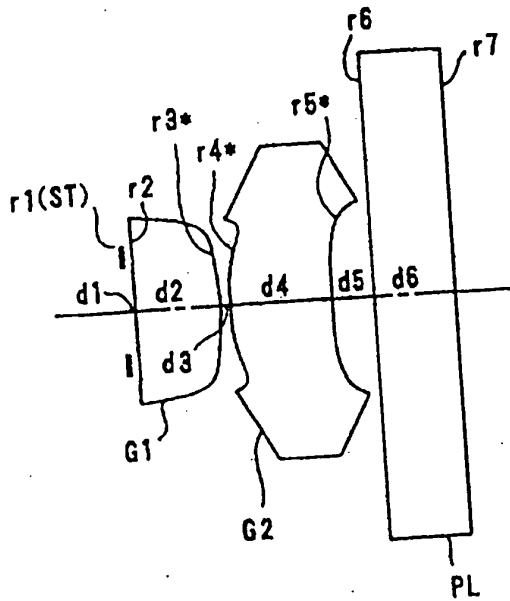


FIG. 8A

$FNO=2.88$

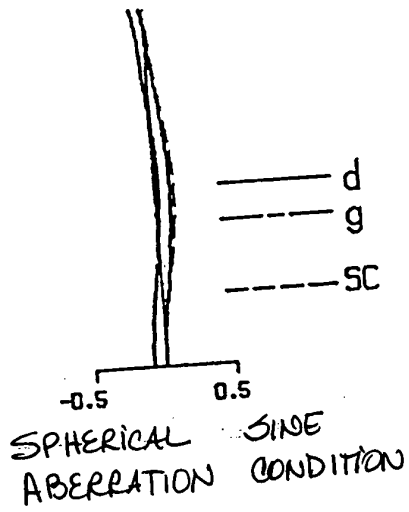


FIG. 8B

$Y'=1.0$

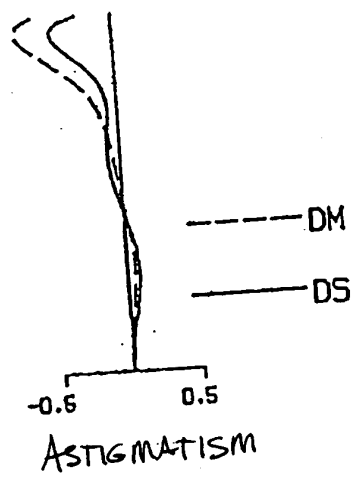


FIG. 8C

$Y'=1.0$

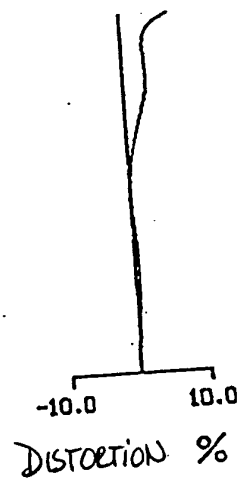


FIG. 9

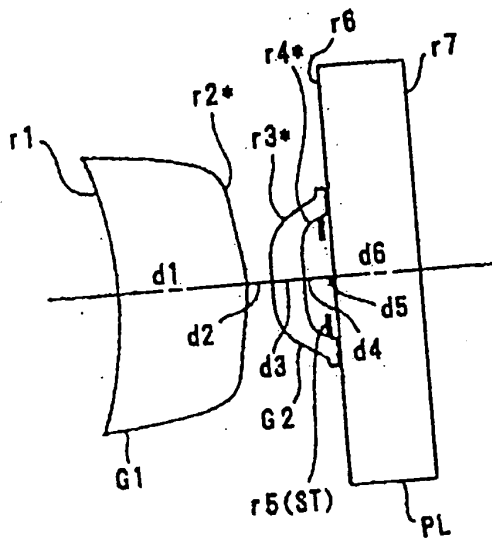


FIG. 10A
FNO-2.88

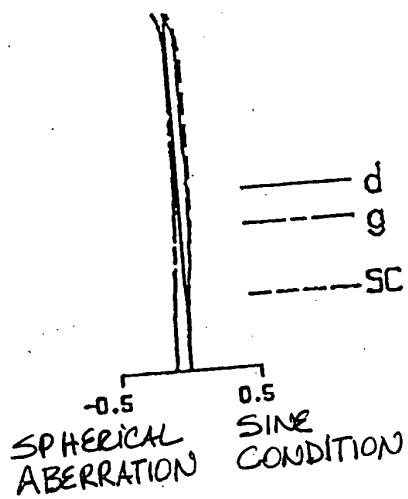


FIG. 10B
Y'-1.0

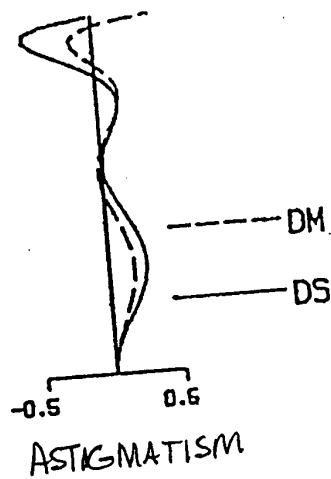


FIG. 10C
Y'-1.0

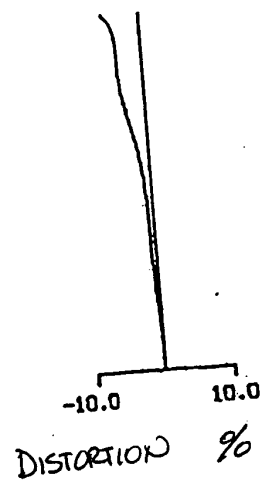


FIG. 11

